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be practicable to connect all the existing old clocks and dials with it, at a trifling cost beyond that of laying down the electric wires.

When the Electric Telegraph Company bring their wires into the city, it is hoped that they will give the Exonians the benefit of one of the Astronomer Royal's daily signals—the deflection of a needle in immediate proximity to the regulator would be sufficient. For the present a 12-inch sympathetic dial of Shepherd's in my own observatory reports to me the performance of the regulator; and there will be little difficulty in making all the public clocks indicate and strike Greenwich mean time, within a second, throughout the year.

In conclusion, I have to acknowledge, with my very best thanks, the readiness with which the Dean and Chapter permitted the cathedral clock to be connected with the Guildhall regulator; and also the cordial support received from the Right Worshipful the Mayor, the Town Council, and others interested in the carrying out of these chronometrical arrangements.

Exeter, November 8, 1854.

Observations of the Solar Spots. By Dr. Wolf.

1854.	Days of Observation.	Days free of Spots.	Number of new Groups in the Month.
January	23	4	4
February	22	6	4
March	29	6	7
April	25	2	6
May	28	7	7
June	30	1	9
July	29	4	7
August	30	4	4
September	30	5	7
October	24	8	5
November	16	0	4
December	18	4	4
	304	51	68

The following table exhibits a synopsis of the condition of the sun during the last six years, in regard to the relative mean number of groups of spots visible on his disk in each month of the year. In order to take some account of the magnitude of the groups, the results are increased by one-tenth of the number of spots visible.

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	1849.	1850.	1851.	1852.	1853.	1854.
Jan.	17·3	10·3	9·0	7·6	4·2	1·4
Feb.	14·3	10·0	10·0	6·3	5·1	1·7
March	10·1	8·8	6·8	6·7	3·3	1·9
April	11·5	3·6	6·1	6·7	5·0	3·1
May	9·6	5·4	7·0	5·4	3·5	2·2
June	9·8	10·5	6·5	4·8	5·0	2·0
July	9·0	4·8	3·1	4·4	4·7	1·9
Aug.	7·0	6·7	6·2	4·4	5·3	1·6
Sept.	10·1	9·1	7·4	3·6	3·1	2·4
Oct.	9·0	9·2	6·3	10·2	4·5	1·7
Nov.	11·9	4·8	6·1	6·7	2·8	2·0
Dec.	10·9	5·2	6·8	5·3	2·6	1·5
Sum	130·7	88·4	81·3	72·1	49·1	23·4

These results seem to agree with the period of the solar spots which Dr. Wolf has assigned, according to which the minimum of the number of groups falls in the latter half of the year 1855.

Dr. Drew has for sale a 30-inch transit-circle by the late Mr. Jones, of Charing Cross. The telescope is of 3½-feet focal length, with an object-glass of 3¼ inches diameter. The circle is read off by three microscopes mounted on solid stone arms; is provided with a micrometer eye-piece and every means for the nicest adjustment. The collimation-error may be corrected either by reflection or by the aid of two collimators which accompany the instrument. Price, with the stone mounting, 100*l.*

A drawing and description of the instrument will be forwarded by Mr. Williams, the Assistant-Secretary of the Society, to any person applying for the same.

ERRATA.

The reader is requested to correct the following errata, which were committed in the translation of Professor Hansen's paper on the Construction of New Lunar Tables, &c., inserted in the *Monthly Notices* for November last:—

Page 12, line 8 from bottom, *for* a large number, *read* a moderate number.

— 14, line 1, *for* were different, *read* were not different.

— 14, last line, *for* greater than unity, *read* less than unity (kleiner wie Eins).

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